CONTENTS

Volume 14

Number 1, July 1980

CHANGES IN THE MORPHOLOGY OF SPERMATOZOA DURING THEIR PASSAGE THROUGH THE GENITAL TRACT IN DAIRY BULLS WITH NORMAL AND IMPAIRED SPERMATOGENESIS

A. Ramamohana Rao, A. Bane and B.K. Gustafsson 1

ESTROUS RESPONSE OF EARLY POSTPARTUM BEEF HEIFERS TO PROGESTERONE AND ESTRADIOL-17β DURING RESTRICTED DIETARY ENERGY

G.L. Williams, J.G. Butler and D.E. Ray 13

THE CONTROL OF MYOMETRIAL FUNCTIONS DURING PARTURITION WITH A β_2-MIMETIC COMPOUND, PLANIPART ^{R}

K. Zerobin and H. Kündig 21

EFFECT OF STAGE OF DIESTRUS AND NUMBER OF CLOPROSTENOL (ICI 80, 996) INJECTIONS ON INTERVALS TO ESTRUS, LH PEAK AND OVULATION IN HEIFERS

K.R. Refsal and B.E. Seguin 37

INFLUENCE OF UNILATERAL CASTRATION AND INCREASED PLANE OF NUTRITION ON SEXUAL DEVELOPMENT OF HOLSTEIN BULLS. I. GROWTH AND SPERM PRODUCTION

M.A. Barnes, J.V. Longnecker, R.C. Charter, J.W. Riesen and C.O. Woody 49

INFLUENCE OF UNILATERAL CASTRATION AND INCREASED PLANE OF NUTRITION ON SEXUAL DEVELOPMENT OF HOLSTEIN BULLS. II. HISTOLOGIC DEVELOPMENT OF THE TESTES

M.A. Barnes, J.W. Riesen and C.O. Woody 59

INFLUENCE OF UNILATERAL CASTRATION AND INCREASED PLANE OF NUTRITION ON SEXUAL DEVELOPMENT OF HOLSTEIN BULLS. III. ENDOCRINE RESPONSES

M.A. Barnes, J.V. Longnecker, J.W. Riesen and C.O. Woody 67

Number 2, August 1980

FERTILITY OF EWES FOLLOWING ARTIFICIAL INSEMINATION WITH SEMEN FROZEN IN PELLETS OR STRAWS, A PRELIMINARY REPORT

W.M.C. Maxwell, R.M. Curnock, D.N. Logue and H.C.B. Reed 83

THERIOGENOLOGY

EFFECT OF MONENSIN, ENERGY LEVEL AND COW BODY CONDITION ON PREGNANCY RATE IN NONLACTATING BEEF COWS

M.F. Smith, L.D. Shipp, W.N. Songster, J.N. Wiltband and L.H. Carroll 91

SHORT ESTROUS CYCLES AND ASSOCIATED SERUM PROGESTERONE LEVELS IN BEEF COWS

K.G. Odde, H.S. Ward, G.H. Kiracofe, R.M. McKee and R.J. Kittok 105

RESPONSE OF PLASMA LH AND FSH TO GONADOTROPIN-RELEASING HORMONE IN PONY FOALS AND OVARIECTOMIZED PONY MARES

James A. Wesson, Kurt F. Miller and O.J. Ginther 113

MORPHOLOGICAL STUDY OF THE BOVINE BLASTOCYST WITH PHASE CONTRAST MICROSCOPY

T. Linares and W.A. King 123

PROLACTIN AND LUTEINIZING HORMONE (LH) RELEASE THROUGHOUT THE POSTPARTUM PERIOD IN THE SUCKLED FIRST-CALF BEEF COW

T. Gimenez, D.M. Henricks, A.R. Ellicott, C.H. Chang J.D. Rone and L.W. Grimes 135

THE SEARCH FOR VIRUSES IN BOVINE SEMEN, A REVIEW

Robert F. Kahrs, E.P.J. Gibbs and R.E. Larsen 151

Number 3, September 1980

EFFECT OF BRUCELLA ABORTUS INFECTION ON SPERMATOGENESIS IN THREE ZEBU BULLS (BOS INDICUS). A CASE REPORT

J. Kumi-Diaka, O.O.J. Bale, D. Ogwu and D. Osori 167

EFFECTS OF HEMICASTRATION AND UNILATERAL VASECTOMY ON THE REMAINING GONAD AND ON THE FSH, LH AND TESTOSTERONE BLOOD CONCENTRATION IN BULLS

W. Leidl, U. Braun, R. Stolla and D. Schams 173

UNILATERAL UTEROOVARIAN RELATIONSHIP IN PREGNANT CATTLE AND ROLE OF UTERINE VEIN

Marcelo R. Del Campo, R.J. Mapletoft, R.F. Rowe, J.K. Critser and O.J. Ginther 185

LUTEAL FUNCTION IN THE HYSTERECTOMIZED BITCH FOLLOWING TREATMENT WITH PROSTAGLANDIN $F_{2\alpha}$ ($PGF_{2\alpha}$)

B.A. Baker, L.F. Archbald, L.L. Clooney, K. Lotz and R.A. Godke 195

PREMATURE REGRESSION OF THE CORPORA LUTEA IN SUPEROVULATED COWS

R. Bouters, I. Moyaert, M. Coryn, J. Spincemaille and M. Vandeplassche 207

EFFECTIVENESS OF FROZEN BOAR SEMEN UNDER PRACTICAL CONDITIONS OF ARTIFICIAL INSEMINATION

M. Paquignon, J. Bussiere, F. Bariteau and M. Courot ... 217

EMBRYO TRANSFER BIBLIOGRAPHY III

S.M. Seidel and G.E. Seidel, Jr. 227

Number 4, October 1980

REPRODUCTIVE PERFORMANCE OF THE Y'ANKASA SHEEP OF NIGERIA

E.C.I. Molokwu and N.N. Umunna 239

ARTIFICIAL INSEMINATION OF SUBTROPICAL COMMERCIAL BEEF CATTLE FOLLOWING SYNCHRONIZATION WITH CLOPROSTENOL (ICI 80996): I. FERTILITY

Daniel R. Hardin, Alvin C. Warnick, Thomas H. Wise, Robert H. Schultz and Michael J. Fields 249

ARTIFICIAL INSEMINATION OF SUBTROPICAL COMMERCIAL BEEF CATTLE FOLLOWING SYNCHRONIZATION WITH CLOPROSTENOL (ICI 80996): II. ESTROUS RESPONSE

Daniel R. Hardin, Alvin C. Warnick and Michael J. Fields 259

THE EFFECTS OF INJECTING [D-Ser(Bu^t)^6] Des Gly-NH_2^{10} LUTEINIZING HORMONE RELEASING HORMONE ETHYLAMINDE IN EARLY, MID AND LATE SEASONAL ANOESTRUS ON GONADOTROPHIN SECRETION AND LUTEAL FUNCTION IN THE EWE

A.D. Swift and D.B. Crighton 269

THE EFFECT OF SELECTION FOR FERTILITY OF FROZEN-THAWED SEMEN ON SPERMATOZOA OXYGEN UPTAKE, MOTILITY AND CONCENTRATION, AND EJACULATE VOLUME IN THE CHICKEN

T.A. Scott, R.B. Buckland and B.W. Kennedy 281

IMMUNOGLOBULINS IN UTERINE SECRETIONS OF MARES WITH DIFFERING RESISTANCE TO ENDOMETRITIS

A.C. Asbury, R.E.W. Halliwell, G.W. Foster and S.J. Longino 299

Number 4, November 1980

TRANSFER OF COW BLASTOCYSTS AFTER SEXING

Suzanne Wintenberger-Torres and Paul C. Popescu 309

THERIOGENOLOGY

THE INFLUENCE OF DAYS POST PARTUM ON CHLORAMPHENICOL ABSORPTION FROM THE BOVINE UTERUS

I. Niedweske and W.R. Threlfall 319

PROGESTERONE IN BOVINE MILK FAT

A.B. Caudle, T. Clekis, F.N. Thompson and S.D. Van Camp 329

COMPARISON OF TREATMENT OF PYOMETRA WITH ESTRADIOL CYPIONATE OR CLOPROSTENOL FOLLOWED BY INFUSION OR NON-INFUSION WITH NITROFURAZONE

Mohammed Fazeli, L. Ball and J.D. Olson 339

EFFECT OF AN INHIBITOR OF PROSTAGLANDIN SYNTHESIS ON UTERINE MOTILITY IN THE OVARIECTOMIZED EWE DURING INDUCED OESTRUS. A PRELIMINARY REPORT

Marie-Jeanne Prud'Homme and Nicole Lacroix 349

THE EFFECT OF THE STAGE OF THE OESTROUS CYCLE AND EXOGENOUS SEX STEROIDS ON THE TRANSPORT OF STARCH GRAINS THROUGH THE GENITAL TRACT OF THE EWE. A PRELIMINARY STUDY

B.M. Kessy and D.E. Noakes 361

OVARIAN RESPONSE TO PREGNANT MARE SERUM GONADOTROPHIN AND PROSTAGLANDIN $F_{2\alpha}$ IN AFRICANDER AND MASHONA COWS

D.H. Holness, D.H. Hale and C.T. McCabe 375

SUPEROVULATION IN CATTLE: EFFECT OF GOAT ANTI-PMSG SERUM

V. Kummer, Z Zralý, V. Holčák, Z. Věžník, J. Schlegelová and K. Hruška 383

Number 6, December 1980

THE DEVELOPMENT AND MARKETING OF ESTRUS SYNCHRONIZATION IN CATTLE IN AUSTRALIA USING PROSTAGLANDINS

Lloyd E. Donaldson 391

DETERMINATION OF THE FERTILIZATION RATE OF A.I. SIRES

B.D. Callaghan and G.J. King 403

PLASMA PROGESTERONE CONCENTRATION IN BOS TAURUS AND BOS INDICUS HEIFERS

Oyewole Adeyemo and Everett Heath 411

THE FEASIBILITY OF SEXING BOVINE MORULA STAGE EMBRYOS PRIOR TO EMBRYO TRANSFER

Elizabeth L. Singh and W.C.D. Hare 421

SIGNIFICANCE OF TOTAL SPERM NUMBERS AND MICROSCOPIC EVALUATION OF BULL SEMEN FROZEN IN PELLETS IN RELATION TO FERTILITY

J.M.M. Goossens and Th.P.R. v.d. Berg 429

INCORPORATION OF [1-^{14}C]-ACETATE INTO TESTOSTERONE, ANDROSTENEDIOL, DEHYDROEPIANDROSTERONE AND PROGESTOGENS BY RAM TESTIS FOLLOWING HUMAN CHORIONIC GONADOTROPIN ADMINISTRATION

Michael J. Fields, John R. Beverly and James L. Fleeger 433

FREEMARTINS IN BEEF CATTLE TWINS INDUCED BY EMBRYO TRANSFER

M.B. Horton, G.B. Anderson, R.H. BonDurant and P.T. Cupps 443

LUTEINIZING HORMONE, TOTAL ESTROGENS AND PROGESTERONE SECRETION DURING LACTATION AND AFTER WEANING IN SOWS

J.S. Stevenson and J.H. Britt 453

CULTURE AND LONG-DISTANCE SHIPMENT OF SWINE EMBRYOS

J.E. James, P.D. Reeser, D.L. Davis, E.C. Straiton, A.C. Talbot and C. Polge 463

THE DAG DEFECT OF THE TAIL OF THE BULL SPERM. STUDIES ON THE INHERITANCE AND PATHOGENESIS

H.H. Koefoed-Johnsen, J.B. Andersen, E. Andresen, E. Blom and H. Philipsen 471

EMBRYO TRANSFER BIBLIOGRAPHY IV

S.M. Seidel and G.E. Seidel, Jr. 477